

...JANUARY 2012 REGIONAL CLIMATE SUMMARY...

SUMMARY FOR THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA...

EXCEPT FOR A FIVE DAY PERIOD OF WET WEATHER FROM JANUARY 19 TO JANUARY 23...THE WEATHER ACROSS THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA DURING JANUARY 2012 WAS VERY MUCH LIKE THAT OF DECEMBER 2011. MOST JANUARY DAYS WERE SUNNY...DRY AND WARM...AND MOST NIGHTS WERE CLEAR AND COOL.

2012 GOT OFF TO A WARM START. THREE HIGH TEMPERATURE RECORDS WERE SET ON JANUARY 1ST. A BRIEF COOL-DOWN ON THE 2ND AND 3RD WAS FOLLOWED BY AN EXTENDED WARM AND DRY PERIOD FROM THE 4TH THROUGH THE 14TH. DAYTIME TEMPERATURES WERE ABOVE NORMAL ON TEN OF THESE ELEVEN DAYS AND SEVERAL DAILY HIGH TEMPERATURE RECORDS WERE SET OR TIED ON THE 4TH...5TH AND 7TH. THE UPPER RIDGE THAT PRODUCED RECORD WARMTH DURING THE FIRST SEVERAL DAYS OF JANUARY...AND DRY WEATHER FOR THE FIRST HALF OF THE MONTH...WEAKENED BY THE MIDDLE OF THE MONTH. THIS ALLOWED A COLD UPPER TROUGH ALONG THE BRITISH COLUMBIA COAST TO DROP SOUTH INTO CALIFORNIA ON THE 15TH AND 16TH. THIS UPPER TROUGH WAS DRY...BUT THE AIRMASS IT USHERED INTO OUR AREA WAS SUFFICIENTLY COLD TO PRODUCE WIDESPREAD FREEZING TEMPERATURES ACROSS OUR REGION FROM THE 16TH THROUGH THE 18TH. RECORD LOW TEMPERATURE RECORDS WERE SET OR TIED ON THE MORNINGS OF THE 17TH AND 18TH. THE COLDEST TEMPERATURES OF THE MONTH FOR MOST OF THE AREA OCCURRED EARLY ON THE MORNING OF TUESDAY THE 17TH. THE LOW TEMPERATURE AT THE NAPA AIRPORT THAT MORNING WAS 19...WHILE MOST OTHER INLAND VALLEY LOCATIONS RECORDED LOW TEMPERATURES IN THE LOWER TO MID 20S. UPPER 20S AND LOWER 30S WERE COMMON ELSEWHERE DURING THE EARLY MORNING HOURS OF THE 17TH.

WHEN THE UPPER RIDGE WEAKENED AROUND THE MIDDLE OF THE MONTH...MOIST FLOW ACROSS THE PACIFIC WAS FINALLY ABLE TO BREAK THROUGH TO THE WEST COAST. RAIN BEGAN TO FALL ON THE 19TH AND THEN BECAME LOCALLY HEAVY ON FRIDAY THE 20TH...CONTINUING INTO FRIDAY NIGHT. RAIN TOTALS FROM THURSDAY JANUARY 19 THROUGH SATURDAY JANUARY 21 RANGED FROM 2.5 TO 5.75 INCHES IN THE NORTH BAY...AND FROM 1 TO 3 INCHES ACROSS MOST OF THE REST OF THE REGION EXCEPT AS LITTLE AS 0.25 INCHES IN THE INTERIOR VALLEYS AND AS MUCH AS 7 INCHES IN THE SANTA CRUZ AND SANTA LUCIA MOUNTAINS. A SECOND SYSTEM DROPPED MORE RAIN FROM LATE SUNDAY INTO MONDAY THE 23RD. THE SECOND SYSTEM PRODUCED STRONG AND GUSTY SOUTHERLY WINDS ON SUNDAY NIGHT AND EARLY MONDAY WHEN WIDESPREAD WIND GUSTS OF BETWEEN 40 AND 50 MPH WERE RECORDED...ALONG WITH LOCAL GUSTS UP TO 60 MPH. RAIN TOTALS WITH THE SECOND SYSTEM WERE NOT QUITE AS IMPRESSIVE AS WITH THE FIRST BUT STILL SIGNIFICANT...ESPECIALLY IN THE COASTAL MOUNTAIN RANGES WHERE AS MUCH AS FOUR MORE INCHES OF RAIN FELL ON THE 22ND AND 23RD.

ALL OF JANUARY'S RAINFALL OCCURRED DURING THE 5 DAY PERIOD FROM THE 19TH TO THE 23RD. THE NORTH BAY BENEFITED MOST FROM THIS BRIEF RESPITE FROM THE PROLONGED DRY PERIOD. JANUARY RAINFALL TOTALS AT NORTH BAY CLIMATE STATIONS WERE CLOSE TO NORMAL...OR EVEN SLIGHTLY ABOVE NORMAL. ELSEWHERE...RAIN TOTALS FOR JANUARY RANGED ANYWHERE

FROM ABOUT 40% TO 70% OF NORMAL. YEAR-TO-DATE RAINFALL TOTALS JUMPED SIGNIFICANTLY BY THE 23RD...BUT STILL LAGGED WELL BEHIND NORMAL. BELOW IS A LISTING OF YEAR-TO-DATE RAIN TOTALS PRIOR TO JANUARY 19 AND THEN AGAIN ON JANUARY 23.

LOCATION	YEAR-TO-DATE TOTALS ON JANUARY 18: INCHES/PON	YEAR-TO-DATE TOTALS ON JANUARY 23: INCHES/PON
SANTA ROSA AIRPORT	4.46/23%	11.43/58%
SAN FRANCISCO	3.37/29%	6.05/49%
SFO AIRPORT	2.87/28%	5.03/47%
OAKLAND AIRPORT	3.07/29%	5.24/48%
MOFFETT FIELD	1.77/26%	2.80/39%
SAN JOSE AIRPORT	1.55/22%	2.45/33%
SALINAS AIRPORT	3.31/59%	4.91/82%

TEMPERATURES DURING THE WET PERIOD FROM THE 19TH TO THE 23RD WERE OPPOSITE OF WHAT THEY WERE DURING MOST OF THE REST OF JANUARY. DAYTIME HIGHS WERE COOL...MOSTLY IN THE 50S...WHILE NIGHTS WERE RELATIVELY MILD DUE TO CONSIDERABLE CLOUD COVER.

THE TYPICAL DRY WEATHER PATTERN OF THE CURRENT WINTER SEASON RETURNED BY JANUARY 25. FOR THE REMAINDER OF THE MONTH OUR REGION EXPERIENCED DRY AND MILD WEATHER CONDITIONS AS A RIDGE OF HIGH PRESSURE ONCE AGAIN PERSISTED ALONG THE WEST COAST.

AVERAGE HIGH TEMPERATURES FOR THE MONTH WERE ABOVE NORMAL AT ALL CLIMATE STATIONS...GENERALLY FROM 2 TO 5 DEGREES WARMER THAN NORMAL. LOW TEMPERATURES WERE BELOW NORMAL AT MOST CLIMATE STATION LOCATIONS. THE EXCEPTIONS WERE A FEW LOCATIONS NEAR THE IMMEDIATE COAST AND AT HIGHER ELEVATION WHERE AVERAGE LOWS WERE ABOVE NORMAL.

...JANUARY REGIONAL TEMPERATURE SUMMARY...

LOCATION	AVG HIGH	NORMAL HIGH	DEPARTURE FROM NORMAL	AVG LOW	NORMAL LOW	DEPARTURE FROM NORMAL
NORTH BAY...						
CALISTOGA	62.7	59.5	3.2	30.5	37.3	-6.8
HEALDSBURG	60.1	57.6	2.5	36.0	39.6	-3.6
KENTFIELD	59.5	55.0	4.5	40.5	41.3	-0.8
NAPA	61.8	57.3	4.5	36.9	39.4	-2.5
NAPA AIRPORT	61.1	55.1	6.0	32.7	37.0	-4.3
PETALUMA AIRPORT	60.9	56.9	4.0	35.2	39.2	-4.0
SAINT HELENA	62.8	57.8	5.0	37.6	38.6	-1.0
SANTA ROSA	63.3	59.0	4.3	35.2	39.2	-4.0
SANTA ROSA AP	61.9	56.7	5.2	33.5	36.6	-3.1
SONOMA	60.2	56.3	3.9	35.7	37.8	-2.1

SAN FRANCISCO PENINSULA...

HALF MOON BAY	61.0	59.0	2.0	41.1	41.5	-0.4
REDWOOD CITY	61.4	58.0	3.4	37.9	40.4	-2.5
SAN FRANCISCO AIRPORT	58.1	56.3	1.8	43.0	44.2	-1.2
SAN FRANCISCO DOWNTOWN	59.3	56.9	2.4	46.5	45.7	0.8
WOODSIDE	64.6	60.5	4.1	32.8	37.0	-4.2

EAST BAY...

BERKELEY	61.6	58.4	3.2	43.0	42.0	1.0
CONCORD AIRPORT	60.9	55.9	5.0	37.0	39.7	-2.7
FREMONT	60.7	58.1	2.6	39.9	42.2	-2.3
HAYWARD AIRPORT	59.2	57.2	2.0	41.0	42.5	-1.5
LIVERMORE AP	61.7	56.0	5.7	36.4	37.4	-1.0
MARTINEZ	59.8	55.2	4.6	32.7	35.6	-2.9
MOUNT DIABLO JUNCTION	57.6	55.5	2.1	42.8	40.0	2.8
NEWARK	59.9	57.6	2.3	41.2	42.1	-0.9
OAKLAND	62.2	58.1	4.1	43.9	44.3	-0.4
OAKLAND AIRPORT	57.7	56.9	0.8	38.3	41.7	-3.4

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	68.6	61.5	7.1	33.4	37.0	-3.6
GILROY	64.9	60.4	4.5	37.5	38.0	-0.5
MOFFETT FIELD	62.0	58.7	3.3	41.7	42.9	-1.2
MOUNT HAMILTON	53.5	48.7	4.8	41.5	38.4	3.1
SAN JOSE	61.8	58.1	3.7	39.9	42.0	-2.1
WATSONVILLE	65.0	60.9	4.1	37.5	39.4	-1.9
WATSONVILLE AP	65.5	61.3	4.2	40.1	39.5	0.6

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	66.4	61.9	4.5	38.1	39.2	-1.1
HOLLISTER	62.5	60.1	2.4	36.6	38.2	-1.6
KING CITY	66.6	63.6	3.0	34.6	37.7	-3.1
MONTEREY	61.2	58.3	2.9	44.2	43.7	0.5
MONTEREY AIRPORT	61.8	59.5	2.3	41.4	42.5	-1.1
SALINAS	66.5	62.3	4.2	38.2	39.5	-1.3
SALINAS AIRPORT	65.1	61.3	3.8	39.9	41.3	-1.4

...JANUARY REGIONAL PRECIPITATION SUMMARY...

LOCATION	JAN TOTAL	NORMAL JAN PRECIP	PERCENT OF NORMAL
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NORTH BAY...

CALISTOGA	6.92	8.16	85
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CLOVERDALE	6.30	8.43	75
FORT ROSS	7.38	7.23	102
HEALDSBURG	9.41	8.54	110
KENTFIELD	8.28	9.13	91
MUIR WOODS	5.37	6.97	77
NAPA	4.89	5.13	95
NAPA AIRPORT	4.00	4.38	91
OCCIDENTAL	11.82	11.11	106
PETALUMA AIRPORT	4.61	4.93	94
SAINT HELENA	5.77	6.94	83
SANTA ROSA	6.31	5.93	106
SONOMA COUNTY AP	6.97	7.05	99
SONOMA	4.92	6.02	82

SAN FRANCISCO PENINSULA...

HALF MOON BAY	2.18	5.53	39
PALO ALTO	1.84	3.06	60
REDWOOD CITY	2.82	4.02	70
SAN FRANCISCO AIRPORT	2.16	4.19	52
SAN FRANCISCO DOWNTOWN	2.68	4.50	60
WOODSIDE	4.10	5.98	69

EAST BAY...

BERKELEY	3.38	4.98	68
CONCORD AIRPORT	2.38	3.27	73
FREMONT	1.19	3.07	39
HAYWARD AIRPORT	1.56	3.30	47
LIVERMORE	1.52	2.87	53
LIVERMORE AIRPORT	1.64	3.01	54
MARTINEZ	2.87	4.01	72
MOUNT DIABLO JUNCTION	3.81	4.77	80
NEWARK	0.95	2.95	32
OAKLAND	2.83	4.71	60
OAKLAND AIRPORT	2.17	3.99	54

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	8.81	10.06	88
GILROY	4.40	4.38	100
LOS GATOS	1.99	4.94	40
MOFFETT FIELD	1.03	2.75	37
MOUNT HAMILTON	3.15	4.68	67
SAN JOSE	0.90	3.07	29
SANTA CRUZ	3.68	6.28	59
WATSONVILLE	2.81	4.46	63
WATSONVILLE AP	2.69	3.81	71

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	2.32	3.82	61
HOLLISTER	1.65	2.93	56
KING CITY	1.30	2.32	56
MONTEREY	1.86	4.40	42
MONTEREY AIRPORT	1.31	3.17	41
PINNACLES NAT MON	1.52	3.48	44
SALINAS	1.41	3.09	46
SALINAS AIRPORT	1.60	2.60	62

...DAILY TEMPERATURE RECORDS FOR JANUARY 2012...

		RECORD MAXIMUM TEMP	PREVIOUS RECORD
1/01	OAKLAND MUSEUM	67	66 IN 1997
1/01	MOFFETT FIELD	70	69 IN 1994
1/01	GILROY	72	69 IN 1980
1/04	MOFFETT FIELD	69	66 IN 1986
1/04	SANTA ROSA	72	72 IN 1919
1/04	LIVERMORE	69	69 IN 1914
1/05	OAKLAND MUSEUM	67	66 IN 2001
1/05	MOFFETT FIELD	67	67 IN 1986
1/05	SANTA ROSA	70	70 IN 2003
1/07	KENTFIELD	68	66 IN 1943
1/07	SANTA ROSA	70	70 IN 1911
1/07	RICHMOND	67	67 IN 2003

		RECORD MINIMUM TEMP	PREVIOUS RECORD
1/17	OAKLAND MUSEUM	34	36 IN 1997
1/17	OAKLAND AIRPORT	28	32 IN 2001
1/17	SAN JOSE	29	30 IN 1943
1/17	NAPA	23	24 IN 1963

1/17	RICHMOND	33	33 IN 1963
1/17	MOFFETT FIELD	29	29 IN 1947
1/17	SANTA CRUZ	26	26 IN 1917
1/17	SALINAS AIRPORT	27	27 IN 1987
1/18	OAKLAND AIRPORT	30	31 IN 2007

...MONTHLY RANKS FOR DOWNTOWN SAN FRANCISCO...

AVERAGE HIGH TEMPERATURE.....59.3.....11TH WARMEST OUT OF 136 YEARS
 AVERAGE LOW TEMPERATURE.....46.5.....42ND WARMEST OUT OF 136 YEARS
 PRECIPITATION..... 2.68 IN.....53RD DRIEST OUT OF 162 YEARS

...MONTHLY EXTREMES FOR SELECT LOCATIONS...

LOCATION	WARMEST DAY(S)	COOLEST DAY(S)	WETTEST DAY(S)
SANTA ROSA AIRPORT	1/05 1/07 1/27 70 DEG	1/17 21 DEG	1/20 2.77 IN
SAN FRANCISCO	1/04 1/07 66 DEG	1/17 40 DEG	1/20 1.41 IN
SAN JOSE	1/01 1/07 1/08 1/13 68 DEG	1/17 29 DEG	1/20 0.44 IN
SALINAS AIRPORT	1/13 77 DEG	1/17 27 DEG	1/20 0.60 IN

NOTE: THIS CLIMATOLOGICAL DATA IS PRELIMINARY. FOR OFFICIAL
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